[c2]

[c3]

[c4]

Claims

1.A method of diagnosing cardiac syndromes, the method comprising the acts of:

acquiring data from a first diagnostic test;

processing the data from the first diagnostic test to produce an indicator;

acquiring data from a second diagnostic test;

processing the data from the second diagnostic test to produce a second indicator;

combining the indicators; and

calculating a risk of a cardiac syndrome based on the combination of indicators.

2.A method as set forth in claim 1, further comprising the acts of acquiring data from a third diagnostic test and processing the data from the third diagnostic test to produce a third indicator.

- 3.A method as set forth in claim 1, wherein the act of combining the indicators includes a Mamdani inference method.
- 4.A method as set forth in claim 1, wherein the act of calculating a risk of a cardiac syndrome includes a Mamdani inference method.
- [c5] 5.A method as set forth in claim 1, wherein the act of acquiring data from a first diagnostic test includes acquiring diagnostic data of a first type.
- [c6] 6.A method as set forth in claim 5, wherein the act of acquiring data from a first diagnostic test is performed by an ECG acquisition module.
- [c7] 7.A method as set forth in claim 5, wherein the act of acquiring data from a first diagnostic test is performed by a biochemical testing module.
- [c8] 8.A method as set forth in claim 5, wherein the act of acquiring data from a first diagnostic test is performed by a history acquisition module.
- [c9] 9.A method as set forth in claim 5, wherein the act of acquiring data from a first diagnostic test is performed by a nuclear imaging module.

- [c10] 10.A method as set forth in claim 5, wherein the act of acquiring data from a first diagnostic test is performed by an ultrasonic imaging module.
- [c11] 11.A method as set forth in claim 5, wherein the act of acquiring data from a second diagnostic test includes acquiring diagnostic data of a second type that differs from the diagnostic data acquired by the first diagnostic test.
- [c12] 12.A method as set forth in claim 11, wherein the act of acquiring data from a second diagnostic test includes acquiring data from an ECG acquisition module.
- [c13] 13.A method as set forth in claim 11, wherein the act of acquiring data from a second diagnostic test includes acquiring data from a biochemical testing module.
- [c14] 14.A method as set forth in claim 11, wherein the act of acquiring data from a second diagnostic test includes acquiring data from a history acquisition module.
- [c15] 15.A method as set forth in claim 11, wherein the act of acquiring data from a second diagnostic test includes acquiring data from a nuclear imaging module.
- [c16] 16.A method as set forth in claim 11, wherein the act of acquiring data from a second diagnostic test includes acquiring data from an ultrasonic imaging module.
- [c17] 17.A method as set forth in claim 1, wherein the method is for diagnosing acute cardiac syndromes.
- [c18] 18.A cardiac syndrome diagnostic system comprising:

 a first cardiac activity acquisition device operable to generate a first cardiac activity data;

a second cardiac activity acquisition device operable to generate a second cardiac activity data;

one or more processors to generate a first and second indicator based on the first and second cardiac activity data, respectively; and

a fusion engine operable to receive the first and second indicators, generate a first and second set of degrees of membership based on the first and second

indicators, and generate a risk of a cardiac syndrome based on a combination of the first and second sets of degrees of membership and a set of predetermined rules.

- [c19] 19.A system as set forth in claim 18, wherein the fusion engine includes a fuzzifier.
- [c20] 20.A system as set forth in claim 18, wherein the fusion engine includes an inference engine.
- [c21] 21.A system as set forth in claim 18, wherein the fusion engine includes a defuzzifier.
- [c22] 22.A system as set forth in claim 18, wherein the system diagnoses acute cardiac syndromes.
- [c23] 23.A diagnostic system comprising:
 - a first physiological activity acquisition module;
 - a second physiological activity acquisition module; and
 - a fusion engine operable to receive data from the first and second modules and to generate a risk of ACS based on a combination of the data received from the first and second modules.
- [c24] 24.A system as set forth in claim 23, wherein the combination of the data received from the first and second modules is based on fuzzy logic algorithms.
- [c25] 25.A system as set forth in claim 23, wherein the first physiological activity acquisition module performs a first physiological test on physiological data of a first type.
- [c26] 26.A system as set forth in claim 25, wherein the first physiological activity acquisition module is an ECG acquisition module.
- [c27] 27.A system as set forth in claim 25, wherein the first physiological activity acquisition module is a biochemical testing module.
- [c28] 28. A system as set forth in claim 25, wherein the first physiological activity acquisition module is a history acquisition module.

acquiring data from a plurality of diagnostic tests;

of:

processing the data from the plurality of diagnostic tests to produce a plurality of indicators;

combining the plurality of indicators; and calculating a risk of a cardiac syndrome based on the combination of the plurality of indicators.

[c39] 39.A method as set forth in claim 38, wherein the cardiac syndrome is an acute cardiac syndrome.